

- DAQ Software Workshop

- IceCube DAQ:

- Schedule

- October 2002

- Bob Minor

Phase One: thru– 3/03

- Primary deliverable for phase one is 24 DOM MB prototypes
- Prototype cards with basic functionality
- Minimum performance required:
 - Acquire data
 - Transmit full engineering data set via fast communication
 - Correct for mechanical and electrical integration
 - Two DOMS on one pair
 - RAP
 - Operational software and firmware on mainline
 - Test software on mainline
- Early delivery after single DOM test

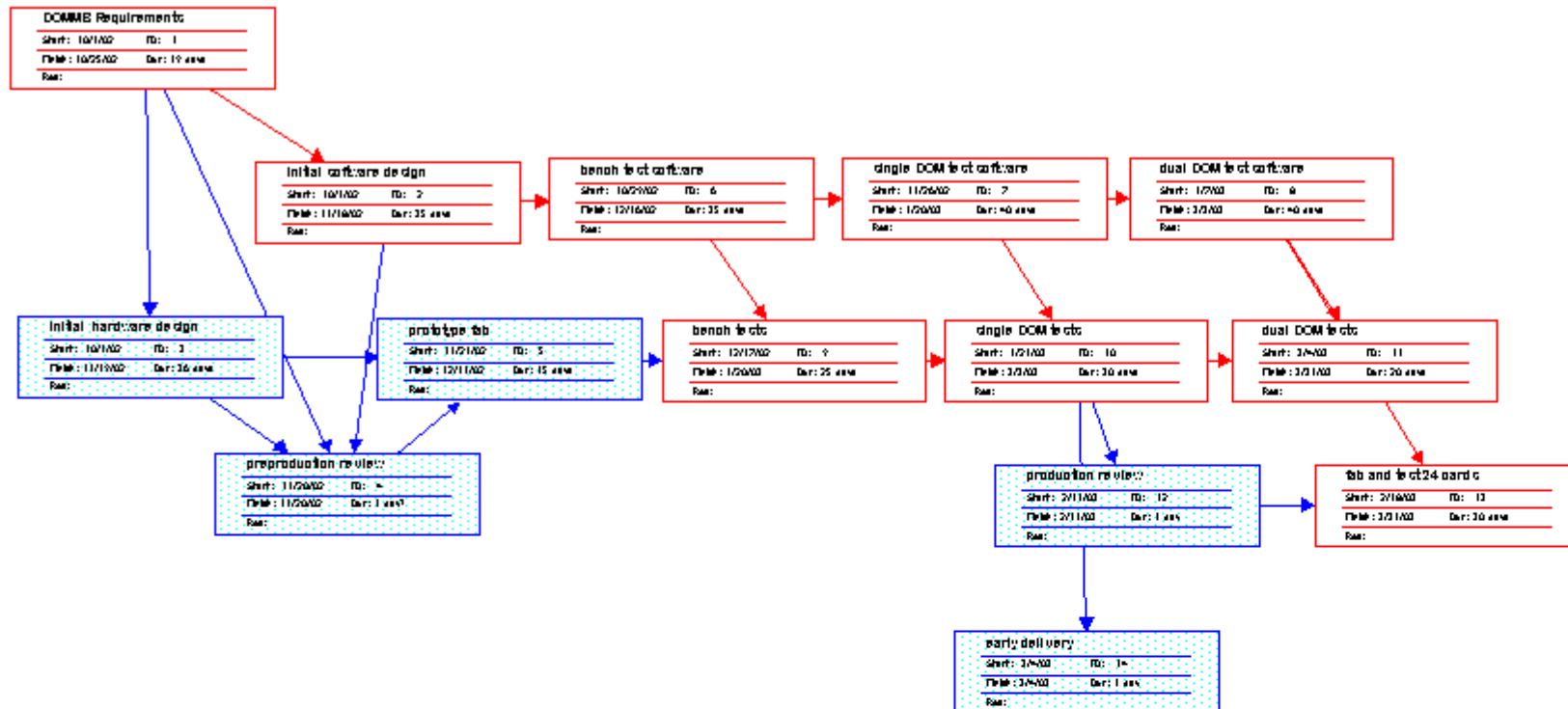
Phase One thru 3/03 (contd)

- Additional performance:
 - Feature extraction
 - Road grader compression
 - Etc
 - Etc

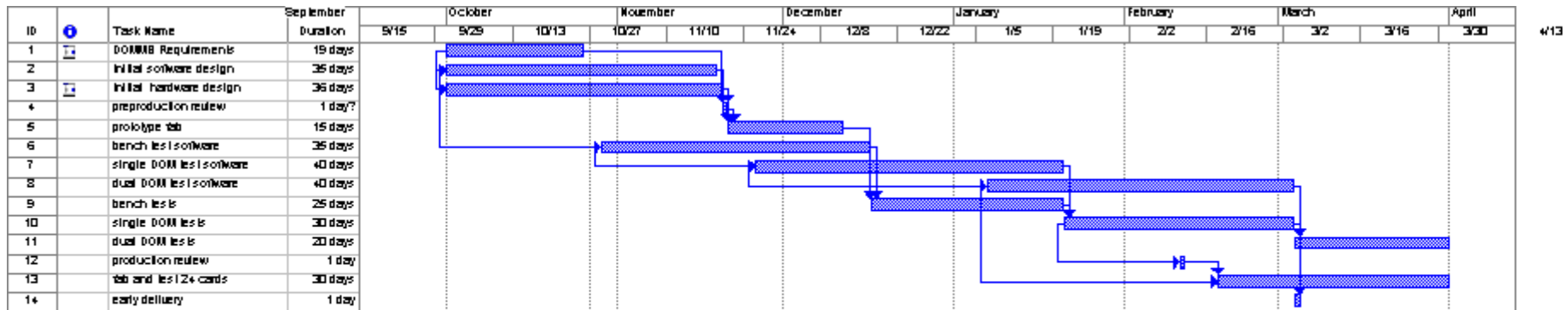
DAQ - Schedule

- DOM Main Board requirements documents (hardware and software) to be circulated for comments by **October 25, 2002**
- DOM HUB requirements documents (hardware and software) to be circulated for comment by **November 8, 2002**
- Prefabrication review of DOM MB prototype including requirements by **November 20, 2002****
- DOM MB prototype and first software ready for test by **December 16, 2002**
- Second round tests begin by **January 15, 2003**
- Third round tests begin by **February 15, 2003**
- Revised design for DOM MB reviewed by **February 15, 2003****
- Fabricate 24 cards, test, etc. and deliver them **March 31, 2003**
- ** denotes a reportable milestone

schedule



schedule



Phase Two 3/03 – 12/02

- Primary deliverable is 150 DOM MB **production models**
 - Redesign cycle for functionality and reliability
 - Orderly redesign cycle
 - Not fastrack
 - Allows cold testing MB before integration
 - Product is true production model
 - No changes in hardware for production
 - Software refinement still possible (likely)

Phase Three 1/04 – 8/04

- Primary deliverable is 200-400 production DOM MBs
- No redesign
- Routine production
- Allows burn-in after DOM integration